

Date: Thursday, 9/28/2006 3:54:54 PM
 User: Kim Johnston

Process Sheet

| | |
|---|--|
| Customer : CU-DAR001 Dart Helicopters Services | Drawing Name : 350/355 AS X-TUBE FWD |
| Job Number : 28773 | |
| Estimate Number : 12485 | |
| P.O. Number : N/A | Part Number : D350748101 |
| This Issue : 9/28/2006 S.O. No. : N/A | Drawing Number : IIN-D350-748 PG5 |
| Prsht Rev. : NC | Project Number : N/A |
| First Issue : N/A Type : LANDING GEAR | Drawing Revision : A UNDER REVIEW 06.10.03 |
| Previous Run : 28772 | Material : N/A |
| Written By : <u> </u> | Due Date : 11/20/2006 Qty: 1 Um: Each |
| Checked & Approved By : <u> </u> | |
| Comment : Est Rev: A New Issue 06-07-05 JLM | |
| Est Rev: B Update qty of MS21042L5 06-09-12 KJ | |

Additional Product

Job Number:



| Seq. #: | Machine Or Operation: | Description : |
|---------|-----------------------|---------------|
|---------|-----------------------|---------------|

| | | |
|-----|----|------------------|
| 1.0 | DC | DOCUMENT CONTROL |
|-----|----|------------------|



①
KB

| | |
|---|--------|
| Comment: Photocopy bluefile & type labels per PPPD350-748-101 | CHG001 |
|---|--------|

06-10-23

| | | |
|-----|--------|--------------------------|
| 2.0 | 28773A | X-TUBE AS 350/355 HI FWD |
|-----|--------|--------------------------|



| |
|---|
| Comment: Sub-Component X-TUBE AS 350/355 HI FWD |
| D350-748-141 B 28773A |

| | | |
|-----|-------------|-----------------------|
| 3.0 | PACKAGING 1 | PACKAGING RESOURCE #1 |
|-----|-------------|-----------------------|



| |
|--------------------------------|
| Comment: PACKAGING RESOURCE #1 |
| Pick Packing Kit |

| | | |
|-----|--------|------------|
| 4.0 | D35001 | 350 SADDLE |
|-----|--------|------------|



| |
|--|
| Comment: Qty.: 4.0000 Each(s)/Unit Total: 4.0000 Each(s) |
| 350 SADDLE |
| Batch: B28477 |

| | | |
|-----|--------|---------|
| 5.0 | D35011 | BUSHING |
|-----|--------|---------|



| |
|--|
| Comment: Qty.: 16.0000 Each(s)/Unit Total: 16.0000 Each(s) |
| BUSHING |
| Batch: B29799 |

[Handwritten signature]

Dart Aerospace Ltd

| W/O: | | WORK ORDER CHANGES | | | | | |
|------|------|--------------------|----|------|-----|-------------------------------------|--------------------------|
| DATE | STEP | PROCEDURE CHANGE | By | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
| | | | | | | | |
| | | | | | | | |

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

QA: N/C Closed: _____ Date: _____

| NCR: | | WORK ORDER NON-CONFORMANCE (NCR) | | | | | | |
|------|------|----------------------------------|-----------------------------|---------------------------------|----------------|---------------------------|-----------------------|--------------------------|
| DATE | STEP | Description of NC Section A | Corrective Action Section B | | | Verification Section C | Approval Chief Eng | Approval QC Inspector |
| | | | Initial Chief Eng | Action Description Chief Eng | Sign & Date | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

NOTE: Date & initial all entries

Date: Thursday, 9/28/2006 3:54:54 PM
User: Kim Johnston

Process Sheet

Customer: CU-DAR001 Dart Helicopters Services

Drawing Name: 350/355 AS X-TUBE FWD

Job Number: 28773

Part Number: D350748101

Job Number:



Seq. #:

Machine Or Operation:

Description :

6.0

AN46A

Bolt



Comment: Qty.: 16.0000 Each(s)/Unit Total: 16.0000 Each(s)

Bolt

Batch: M102115 ✓

7.0

AN441A

bolt



Comment: Qty.: 8.0000 Each(s)/Unit Total: 8.0000 Each(s)

bolt

Batch: M101538 ✓

8.0

AN532A

Bolt



Comment: Qty.: 4.0000 Each(s)/Unit Total: 4.0000 Each(s)

Bolt

Batch: M103338 ✓

9.0

AN960JD416

Washer



Comment: Qty.: 32.0000 Each(s)/Unit Total: 32.0000 Each(s)

Washer

Batch: M102929 ✓

10.0

AN960JD516

Washer



Comment: Qty.: 8.0000 Each(s)/Unit Total: 8.0000 Each(s)

Washer

Batch: M102519 ✓

11.0

MS21042L4

Nut



Comment: Qty.: 24.0000 Each(s)/Unit Total: 24.0000 Each(s)

Nut

Batch: M103914 ✓

12.0

MS21042L5

Nut



Comment: Qty.: 4.0000 Each(s)/Unit Total: 4.0000 Each(s)

Nut

Batch: M100564 ✓

[Handwritten signature]

Dart Aerospace Ltd

| W/O: | | WORK ORDER CHANGES | | | | | |
|------|------|--------------------|----|------|-----|-------------------------------------|--------------------------|
| DATE | STEP | PROCEDURE CHANGE | By | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
| | | | | | | | |
| | | | | | | | |

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes ☒ No ☐ DQA: ☒ Date: 01/04/12
 QA: N/C Closed: _____ Date: _____

| NCR: | | WORK ORDER NON-CONFORMANCE (NCR) | | | | | | |
|------|------|----------------------------------|-----------------------------|---------------------------------|----------------|---------------------------|-----------------------|--------------------------|
| DATE | STEP | Description of NC Section A | Corrective Action Section B | | | Verification Section C | Approval Chief Eng | Approval QC Inspector |
| | | | Initial Chief Eng | Action Description Chief Eng | Sign & Date | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

NOTE: Date & initial all entries

Date: Thursday, 9/28/2006 3:54:54 PM
User: Kim Johnston

Process Sheet

Customer: CU-DAR001 Dart Helicopters Services

Drawing Name: 350/355 AS X-TUBE FWD

Job Number: 28773

Part Number: D350748101

Job Number:



Seq. #:

Machine Or Operation:

Description :

13.0

QC4

INSPECT 100% KITS FOR COMPLETENESS



Comment: INSPECT 100% KITS FOR COMPLETENESS

Signature 9/28/11 (1)

14.0

PACKAGING 1

PACKAGING RESOURCE #1



Comment: PACKAGING RESOURCE #1

Identify and pack for shipping as per PPP D350-748-101

Location:

PPP Rev:

DRAFT

Signature 9/28/11 (1)

15.0

QC21

FINAL INSPECTION/W/O RELEASE



Comment: FINAL INSPECTION/W/O RELEASE

Signature 9/28/11 (1)

Job Completion



Signature 9/28/11

Dart Aerospace Ltd

| W/O: | | WORK ORDER CHANGES | | | | | |
|------|------|--------------------|----|------|-----|-------------------------------------|--------------------------|
| DATE | STEP | PROCEDURE CHANGE | By | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
| | | | | | | | |
| | | | | | | | |

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

QA: N/C Closed: _____ Date: _____

| NCR: | | WORK ORDER NON-CONFORMANCE (NCR) | | | | | | |
|------|------|----------------------------------|-----------------------------|---------------------------------|----------------|---------------------------|-----------------------|--------------------------|
| DATE | STEP | Description of NC Section A | Corrective Action Section B | | | Verification Section C | Approval Chief Eng | Approval QC Inspector |
| | | | Initial Chief Eng | Action Description Chief Eng | Sign & Date | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

NOTE: Date & initial all entries

3.10 Apply a continuous bead of Sikaflex-241/-291 or Proseal 890 or MIL-S-8802 Class B2 sealant in the following locations as per Figure 6:

- A) Along saddle/crosstube interface.
- B) Between the saddle flanges.
- C) Along saddle/skidtube interface.

4.0 WEIGHT AND BALANCE

The following weight and balance information is for Dart crosstube installations only. This data should be similar to the existing installation. Differences from the parts removed are the responsibility of the installer.

| DART CROSSTUBE | FWD/AFT | WEIGHT | STA | MOMENT |
|----------------|---------|----------------------|----------------------|---------------------------|
| D350-748-101 | Fwd | 35.2 lb (16.0 kg) | 106.3 in (2.70 m) | 3742 lb-in (43.2 kg-m) |
| D350-748-201 | Aft | 34.7 lb (15.7 kg) | 162.4 in (4.12 m) | 5635 lb-in (64.7 kg-m) |

5.0 PARTS LIST

| Qty -101 | Qty -201 | Part Number | Description |
|-------------|-------------|---------------|---|
| X | | D350-748-101 | CROSSTUBE INSTALLATION, AS 350/355 HIGH FWD |
| | X | D350-748-201 | CROSSTUBE INSTALLATION, AS 350/355 HIGH AFT |
| 1 | | D350-748-141 | CROSSTUBE ASSEMBLY, AS 350/355 HIGH FWD |
| | 1 | D350-748-241 | CROSSTUBE ASSEMBLY, AS 350/355 HIGH AFT |
| *2 | *2 | D3502-1 | SUPPORT |
| *2 | *2 | D2856-400-710 | ABRASION STRIP |
| *1 | *1 | AELS-1032-225 | INSERT |
| *2 | *2 | MS21920-20 | CLAMP |
| *1 | *1 | MS27039-1-10 | SCREW |
| *1 | *1 | AN960JD10 | WASHER |
| 4 | 4 | D3500-1 | SADDLE |
| 16 | 16 | D3501-1 | BUSHING |
| 16 | 16 | AN4-6A | BOLT |
| 8 | 8 | AN4-41A | BOLT |
| 4 | 4 | AN5-32A | BOLT |
| 32 | 32 | AN960JD416 | WASHER |
| 8 | 8 | AN960JD516 | WASHER |
| 24 | 24 | MS21042L4 | NUT (OR MS21042-4) |
| 4 | 4 | MS21042L5 | NUT (OR MS21042-5) |

* REFERENCE ONLY. PARTS ARE INCLUDED IN D350-748-141/241 ASSEMBLIES ABOVE

SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. 28773

Date: Thursday, 9/28/2006 3:55:13 PM
 User: Kim Johnston

Process Sheet

Customer : CU-DAR001 Dart Helicopters Services Drawing Name : X-TUBE AS 350/355 HI FWD
 Job Number : 28773A
 Estimate Number : 12484
 P.O. Number : N/A Part Number : D350748141
 This Issue : 9/28/2006 S.O. No. : N/A Drawing Number : D350-748-141
 Prsht Rev. : NC Project Number : N/A
 First Issue : N/A Type : LANDING GEAR Drawing Revision : UNDER REVIEW 06.10.03 Rev.D
 Previous Run : 28772A Material : N/A 07.03.29
 Due Date : 11/20/2006 Qty: 1 Um: Each
 Written By :
 Checked & Approved By : 06 10 03
 Comment : Est Rev: A New Issue 06-07-05 JLM
 Est Rev: B Update cadplate process 06-09-12 KJ

Additional Product

Job Number:



Seq. #: Machine Or Operation: Description :

1.0 DC DOCUMENT CONTROL



Comment: DOCUMENT CONTROL

Photocopy bluefile and create labels as per PPP D350-748-141 CHG001

N/A

2.0 D6017115 Crosstube Material



Comment: Qty.: 1.0000 Each(s)/Unit Total : 1.0000 Each(s)

Crosstube Material

D6017-115

2.339" OD X 2.000" ID

Batch: B2747106/10/04

3.0 MORI SEIKI MORI SEIKI CNC LATHE LARGE



Comment: MORI SEIKI CNC LATHE LARGE

1-Fill tube with sand & install plugs on both ends as per Folio FA648

2-Turn first side as per Folio FA648

3-Deburr & Inspect for surface damage. Repair damage within limits as per Dwg D350-748-141. BC 06.10.07

4.0 QC1 INSPECT ALL DIM TO DIM SHEET



Comment: INSPECT ALL DIM TO DIM SHEET

BC 06.10.07

Dart Aerospace Ltd

| W/O: | | WORK ORDER CHANGES | | | | | |
|------|------|--------------------|----|------|-----|-------------------------------------|--------------------------|
| DATE | STEP | PROCEDURE CHANGE | By | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
| | | | | | | | |
| | | | | | | | |

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

QA: N/C Closed: _____ Date: _____

| NCR: | | WORK ORDER NON-CONFORMANCE (NCR) | | | | | | |
|------|------|----------------------------------|-----------------------------|---------------------------------|----------------|---------------------------|-----------------------|--------------------------|
| DATE | STEP | Description of NC Section A | Corrective Action Section B | | | Verification Section C | Approval Chief Eng | Approval QC Inspector |
| | | | Initial Chief Eng | Action Description Chief Eng | Sign & Date | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

NOTE: Date & initial all entries

Date: Thursday, 9/28/2006 3:55:13 PM
User: Kim Johnston

Process Sheet

Customer: CU-DAR001 Dart Helicopters Services

Drawing Name: X-TUBE AS 350/355 HI FWD

Job Number: 28773A

Part Number: D350748141

Job Number:



Seq. #:

Machine Or Operation:

Description :

5.0

MORI SEIKI

MORI SEIKI CNC LATHE LARGE



Comment: MORI SEIKI CNC LATHE LARGE

1-Turn second side as per Folio FA648

2-Deburr & Inspect for surface damage. Repair damage within limits as per Dwg D350-748-141.

3-Scribe Part & Batch as per Dwg D350-748-141

36 06.10.07

6.0

QC1

INSPECT ALL DIM TO DIM SHEET



Comment: INSPECT ALL DIM TO DIM SHEET

36 06.10.07

7.0

QC8

SECOND CHECK



Comment: SECOND CHECK

SA 06.10.08 1

8.0

LANDING GEAR 1

LANDING GEAR RESOURCE 1



Comment: LANDING GEAR RESOURCE 1

Remove all Machinig Marks

DP 6-10-12

9.0

OUTSIDE SERVICE

OUTSIDE SERVICES



Comment: Sub-Contracting OUTSIDE SERVICES

Issue P/O: 2263

C20610/17 0

Heat Treat to min 180 KSI As per Dwg D350-748-141

Sand Blast tube after Heat Treat

Possibe Supplier: Vac Aero

Ensure Certificate of Conformity is attached

10.0

PACKAGING 1

PACKAGING RESOURCE #1



Comment: PACKAGING RESOURCE #1

Receive & Inspect For Transit Damage

Ensure certificate of conformaty is attached

C20611/30 0

Dart Aerospace Ltd

| W/O: | | WORK ORDER CHANGES | | | | | |
|----------|------|---|----|------|-----|-------------------------------------|--------------------------|
| DATE | STEP | PROCEDURE CHANGE | By | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
| 07/03/29 | 15 | MAGNETIC PARTICLE INSPECT PER DART QSI 038 4.2 CAD RATE PER AMS-QQ-P-416B, CLASS I, TYPE II REF D350-748-141 Rev. D | | | | CP 07.03.29 P2 QSI 642 | |
| | | | | | | | |

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

QA: N/C Closed: _____ Date: _____

| NCR: | | WORK ORDER NON-CONFORMANCE (NCR) | | | | | | |
|------|------|----------------------------------|-----------------------------|---------------------------------|----------------|---------------------------|-----------------------|--------------------------|
| DATE | STEP | Description of NC Section A | Corrective Action Section B | | | Verification Section C | Approval Chief Eng | Approval QC Inspector |
| | | | Initial Chief Eng | Action Description Chief Eng | Sign & Date | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

NOTE: Date & initial all entries

Date: Thursday, 9/28/2006 3:55:13 PM
User: Kim Johnston

Process Sheet

Customer: CU-DAR001 Dart Helicopters Services

Drawing Name: X-TUBE AS 350/355 HI FWD

Job Number: 28773A

Part Number: D350748141

Job Number:



Seq. #:

Machine Or Operation:

Description :

11.0

QC6

DIMENSIONAL CHECK



Comment: DIMENSIONAL CHECK

206-12-040

12.0

BENDING

BENDING MACHINE



Comment: BENDING MACHINE

Bend tube as per Dwg D350-748-141 using CNC bender program D350F and Folio FT

DP 7-1-31

13.0

QC6

DIMENSIONAL CHECK



Comment: DIMENSIONAL CHECK

20702-01

14.0

LANDING GEAR 1

LANDING GEAR RESOURCE 1



Comment: LANDING GEAR RESOURCE 1

1-Remove all marks from tube within limits of D350-748-141

2-Drill Tube as per Dwg D350-748-141 Using DT8876 Drill Jigs,

Set-up drill table as per QSI 010

3-Deburr

4-Engrave Part # and Batch # as per Dwg D350-748-141

07-02-19 DP 1507-2-20

07-02-19

DP 7-2-19

(Pto)

15.0

OUTSIDE SERVICE

OUTSIDE SERVICES



Comment: Sub-Contracting OUTSIDE SERVICES

Issue P/O: *3206*

Stress relief at 375° for 5 hours

Magnetic Particle Inspect per ASTM E1444

Cadium Plate per QQ-P-416F, Class 1, Type 2

Embrittle relief at 375° for 8 hours, Chromate Treat

Possible Supplier: Southwest United Industries

Ensure Certificate of Conformity is attached

POSITIVE RECALL

EFFECTIVE *06.10.03*

AUTH *UP*

RELEASED *UP*

DATE *07.03.29*

C 207/02/28

*SEE W/D
CHANGE*

←

*SEE W/D
CHANGE
PREVIOUS
PAGE
←*

16.0

PACKAGING 1

PACKAGING RESOURCE #1



Comment: PACKAGING RESOURCE #1

Receive & Inspect For Transit Damage

Ensure certificate of conformity is attached

C 7/3/28

| W/O: | | WORK ORDER CHANGES | | | | | | |
|--------|------|--|----------|----------|-----|-------------------------------------|--------------------------|--|
| DATE | STEP | PROCEDURE CHANGE | By | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector | |
| 070201 | 14.0 | QCS needed after 14.0. Perm. Change <i>2</i> | | | | <i>2</i> | <i>2</i> | |
| | | QCS Inspect work to current step. | <i>1</i> | 07/02/00 | ① | 070201 | 070201 | |
| | | | | | | | | |

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

QA: N/C Closed: _____ Date: _____

| NCR: | | WORK ORDER NON-CONFORMANCE (NCR)- | | | | | | |
|------|------|-----------------------------------|-----------------------------|---------------------------------|----------------|---------------------------|-----------------------|--------------------------|
| DATE | STEP | Description of NC Section A | Corrective Action Section B | | | Verification Section C | Approval Chief Eng | Approval QC Inspector |
| | | | Initial Chief Eng | Action Description Chief Eng | Sign & Date | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

NOTE: Date & initial all entries

Date: Thursday, 9/28/2006 3:55:14 PM
User: Kim Johnston

Process Sheet

Customer: CU-DAR001 Dart Helicopters Services

Drawing Name: X-TUBE AS 350/355 HI FWD

Job Number: 28773A

Part Number: D350748141

Job Number:



Seq. #:

Machine Or Operation:

Description :

17.0

QC5

INSPECT WORK TO CURRENT STEP



Comment: INSPECT WORK TO CURRENT STEP

0703-29

18.0

SPRAY PAINTING

SPRAY PAINTING



Comment: SPRAY PAINTING

1-Prime inside crosstube as per QSI 005 4.2

2-Paint Outside of Tube as per Dart QSI 005 4.2

7 ml 0704 08

①

19.0

QC14

Inspect Spray Paint



Comment: Inspect Spray Paint

Then, Wrap in plastic bag to protect from scratches

RT 07-04-10

20.0

D35021

SUPPORT



Comment: Qty.: 2.0000 Each(s)/Unit Total: 2.0000 Each(s)

SUPPORT

Batch: 28476

RT 07-04-10

21.0

D2856400

Abrasion Strip



Comment: Qty.: 1.2401 f(s)/Unit Total: 1.2401 f(s)

Abrasion Strip 7.10" long x2

Batch: 29850

RT 07-04-10

22.0

ALS41032225

Insert



Comment: Qty.: 1.0000 Each(s)/Unit Total: 1.0000 Each(s)

Insert

Batch: 19393

RT 07-04-10

23.0

AN960JD10

Washer



Comment: Qty.: 1.0000 Each(s)/Unit Total: 1.0000 Each(s)

Washer

Batch: 103641

RT 07-04-10

Dart Aerospace Ltd

| W/O: | | WORK ORDER CHANGES | | | | | |
|------|------|--------------------|----|------|-----|-------------------------------------|--------------------------|
| DATE | STEP | PROCEDURE CHANGE | By | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
| | | | | | | | |
| | | | | | | | |

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes ☐ No ☒ DQA: ☒ Date: 07/04/12
 QA: N/C Closed: _____ Date: _____

| NCR: | | WORK ORDER NON-CONFORMANCE (NCR) | | | | | | |
|------|------|----------------------------------|--------------------------------|---------------------------------|----------------|---------------------------|-----------------------|--------------------------|
| DATE | STEP | Description of NC Section A | Corrective Action Section B | | | Verification Section C | Approval Chief Eng | Approval QC Inspector |
| | | | Initial Chief Eng | Action Description Chief Eng | Sign & Date | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

NOTE: Date & initial all entries

Date: Thursday, 9/28/2006 3:55:14 PM
User: Kim Johnston

Process Sheet

Customer: CU-DAR001 Dart Helicopters Services

Drawing Name: X-TUBE AS 350/355 HI FWD

Job Number: 28773A

Part Number: D350748141

Job Number:



Seq. #:

Machine Or Operation:

Description :

24.0

MS2192020

Clamp (per MIL-DTL-8783C)



Comment: Qty.: 2.0000 Each(s)/Unit Total : 2.0000 Each(s)

Clamp (per MIL-DTL-8783C)

Batch: 102 440

RT 07-04-10

25.0

MS27039110

Screw



Comment: Qty.: 1.0000 Each(s)/Unit Total : 1.0000 Each(s)

Screw

Batch: 18836

RT 07-04-10

26.0

LANDING GEAR 1

LANDING GEAR RESOURCE 1



Comment: LANDING GEAR RESOURCE 1

1-Install Ground wire Insert, then insert screw and washer

2-Install Abrasion strips as per Dwg D350-748-141 & QSI 035.

3-Install supports Using Dt8876 as per Dwg D350-748-141, Torque to 60-80 IN-LBS

} RT 07-04-10

27.0

QC5

INSPECT WORK TO CURRENT STEP



Comment: INSPECT WORK TO CURRENT STEP

DP 7-4-11

28.0

PACKAGING 1

PACKAGING RESOURCE #1



Comment: PACKAGING RESOURCE #1

Identify and pack for shipping as per PPP D350-748-241

Location: _____

PPP Rev: _____

PPP B28773 6/7/4/11(1)

29.0

QC21

FINAL INSPECTION/W/O RELEASE



Comment: FINAL INSPECTION/W/O RELEASE

DP 07/04/12

Job Completion



4 07-04-11

Dart Aerospace Ltd

| W/O: | | WORK ORDER CHANGES | | | | | |
|------|------|--------------------|----|------|-----|-------------------------------------|--------------------------|
| DATE | STEP | PROCEDURE CHANGE | By | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
| | | | | | | | |
| | | | | | | | |

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

QA: N/C Closed: _____ Date: _____

| NCR: | | WORK ORDER NON-CONFORMANCE (NCR) | | | | | | |
|------|------|----------------------------------|-----------------------------|---------------------------------|----------------|---------------------------|-----------------------|--------------------------|
| DATE | STEP | Description of NC Section A | Corrective Action Section B | | | Verification Section C | Approval Chief Eng | Approval QC Inspector |
| | | | Initial Chief Eng | Action Description Chief Eng | Sign & Date | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

NOTE: Date & initial all entries

DART

| | | | |
|------------------|----------------|--|------------------------|
| DESIGN 9P | DRAWN BY 9P | DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA | |
| CHECKED # | APPROVED # | DRAWING NO. D350-748-141 | REV. C SHEET 1 OF 3 |
| DATE 06.08.14 | | TITLE CROSSTUBE (AS 350/355 HI FWD) | SCALE NTS |
| A | 06.03.31 | NEW ISSUE | |
| B | 06.06.30 | ADD D6017-115 & PRIME AND PAINT | |
| C | 06.08.14 | ADD CAD PLATING | |

UNDER REVIEW

UP 06.09.07
CAD PLATING THE CLAMP
WILL CHANGE

| QTY | P/N | DESCRIPTION |
|-----|---------------|--|
| X | D350-748-141 | CROSSTUBE ASSEMBLY (AS 350/355 HI FWD) |
| 1 | D6017-115 | CROSSTUBE (OR D6015-125) |
| 2 | D3502-1 | SUPPORT |
| 2 | D2856-400-710 | ABRASION STRIP |
| 1 | AELS-1032-225 | INSERT |
| 1 | AN960JD10 | WASHER |
| 2 | MS21920-20 | CLAMP (PER DART SPEC. M-MS21920-20) |
| 1 | MS27039-1-10 | SCREW |

D350-748-141 CROSSTUBE:

- 1) MATERIAL: MANUFACTURED FROM D6017-115 OR D6015-125
FINISHED LENGTH = 110.27±0.06
- 2) MACHINE PER MACHINING DETAIL ON PAGE 3. BLEND OUT ALL EDGES FROM MACHINING LONGITUDINALLY, TRANSITIONS SHOULD BE SMOOTH. NOTE: ALL HOLES ARE DRILLED AFTER BENDING.
- 3) SCRIBE DART PART NUMBER AND BATCH NUMBER IN THIS AREA WITH VIBRATING STYLUS.
- 4) BEND PROGRESSIVELY WITH A MINIMUM OF 7 PASSES. MAXIMUM TUBE FLATTENING DUE TO BENDING IS 6% BASED ON O.D.
- 5) HEAT TREAT TO MIN. 180 KSI PER MIL-T-6736 OR AMS 2759-1C AFTER TURNING
- 6) FINISH: CADMIUM PLATE PER QQ-P-416F, CLASS 1, TYPE II
MAGNETIC PARTICLE INSPECT PER ASTM E1444 AFTER CADMIUM PLATING
PRIME INSIDE AND OUTSIDE PER DART QSI 005 4.2
PAINT OUTSIDE PER DART QSI 005 4.2
- 7) EXTREME CARE MUST BE TAKEN TO PROTECT THE OUTSIDE SURFACE OF THE TUBE. THE OUTSIDE SURFACE MUST BE SMOOTH AND FREE FROM SURFACE DEFECTS SUCH AS SCRATCHES, NICKS, OR DENTS. DEFECTS UP TO 0.005" MAY BE BLENDED OUT LONGITUDINALLY. CIRCUMFERENTIAL GRIND MARKS ARE UNACCEPTABLE. WHEN DRILLING HOLES EXTREME CARE MUST BE TAKEN AND CAREFUL DEBURRING PERFORMED TO ENSURE A CLEAN HOLE WITH NO CRACKING/CHIPPING/GROOVES.
- 8) INSTALL D2856-400-710 ABRASION STRIP WITH A GAP ON BOTTOM SIDE OF CROSSTUBE CENTERED OPPOSITE D3502-1 SUPPORT, PER QSI 035.
- 9) TORQUE MS21920-20 CLAMPS 60 TO 80 IN-LB
- 10) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED.
- 11) ALL DIMENSIONS ARE IN INCHES
- 12) PART IS SYMMETRIC ABOUT CENTERLINE EXCEPT FOR Ø0.297 HOLE.

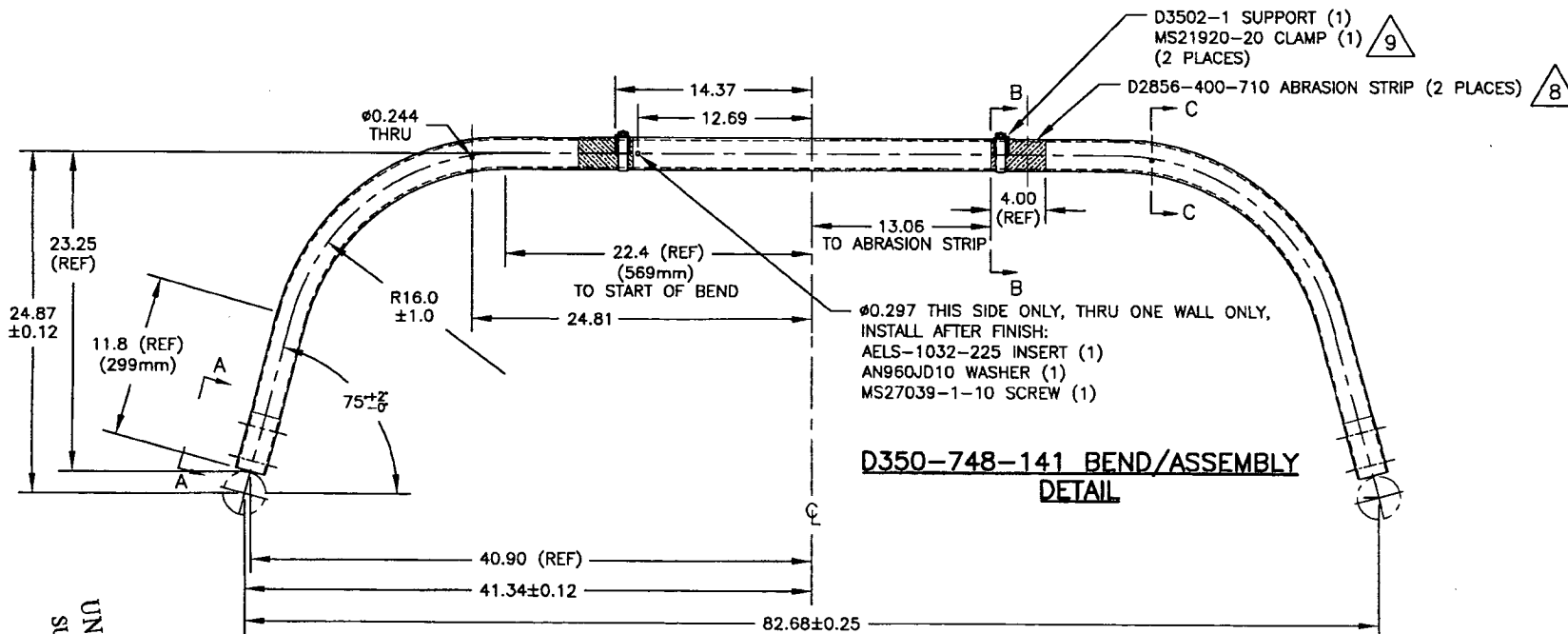
SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. 28773A

RELEASED

06.08.15 #

Copyright © 2006 by DART AEROSPACE LTD

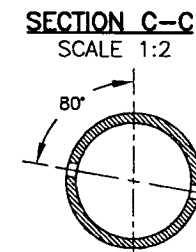
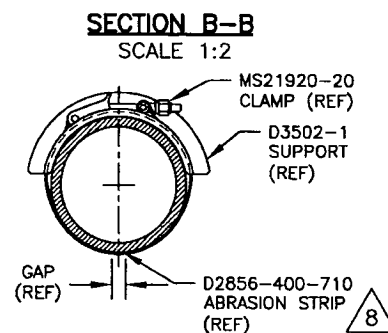
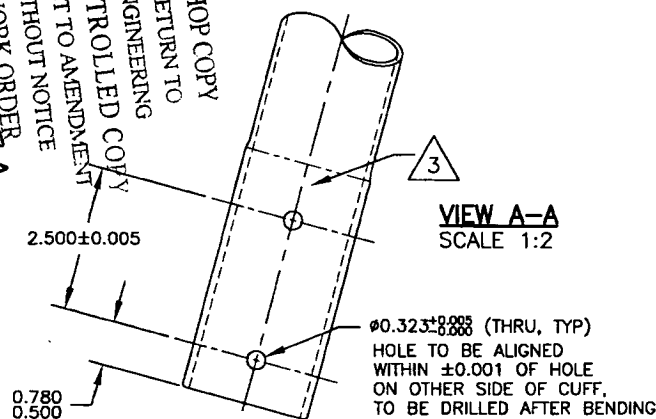
THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.



**D350-748-141 BEND/ASSEMBLY
DETAIL**

UNDER REVIEW
9/28/07

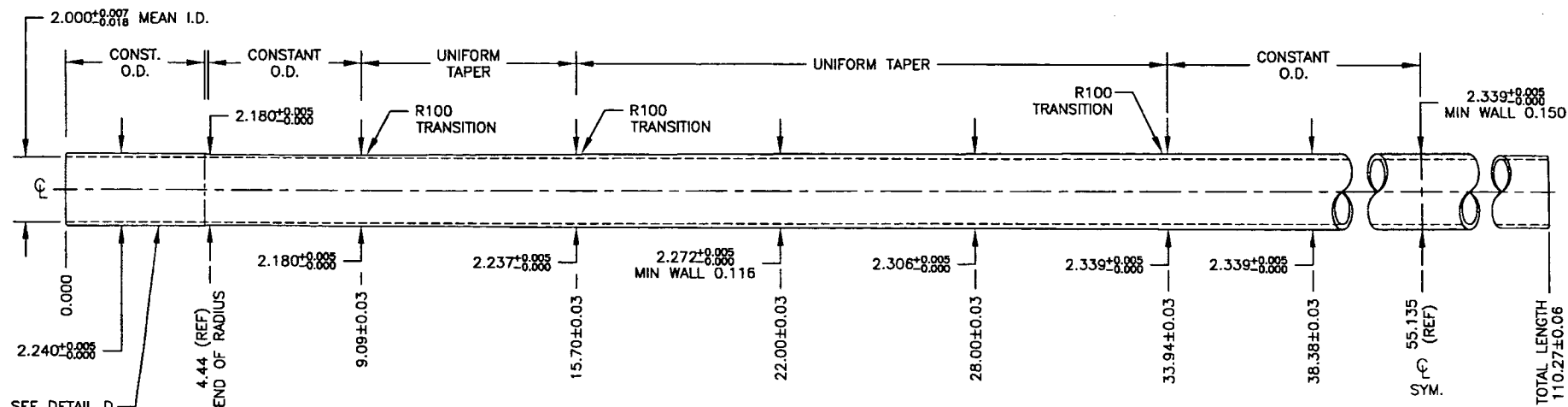
SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO 28773A



RELEASED

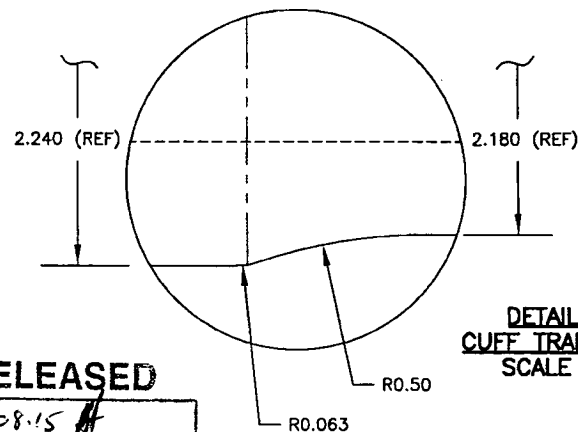
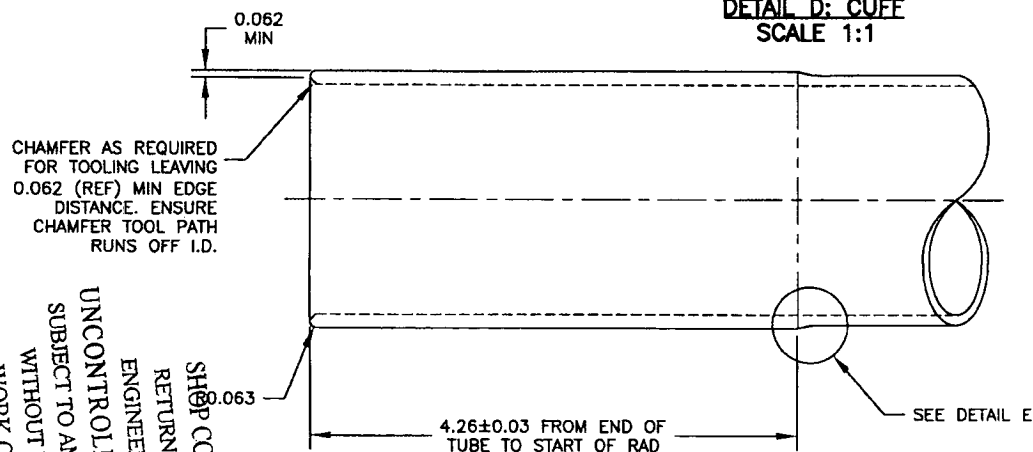
16.08.15

| | | | | | | | | |
|--|--|---------|----------|----------|----|-------------------------------|--|--------|
| COPYRIGHT © 2008 BY DART AEROSPACE LTD. | | DESIGN | 99 | DRAWN BY | 99 | DART | DART AEROSPACE LTD. HARRISBURG, ONTARIO, CANADA | REV. C |
| THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD. | | CHECKED | 4 | APPROVED | 4 | | | |
| | | DATE | 06.08.14 | | | TITLE | | SCALE |
| | | | | | | CROSSTUBE (AS 350/355 HI FWD) | | 1:8 |



D350-748-141 MACHINING DETAIL

**DETAIL D: CUFF
SCALE 1:1**



**DETAIL E:
CUFF TRANSITION
SCALE 9:1**

RELEASED

06.08.15

UNDER REVIEW

WORK ORDER
NO. 28773A
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
ENGINEERING
RETURN TO
SHOP COPY

| | | | | | |
|--|--|----------|----------|-------------------------------|---------------------|
| COPYRIGHT © 2006 BY DART AEROSPACE LTD. | | DESIGN | DRAWN BY | DART | DART AEROSPACE LTD. |
| THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD. | | CHECKED | APPROVED | DRAWING NO. | REV. C |
| | | DATE | | D350-748-141 | SHEET 3 OF 3 |
| | | 06.08.14 | | TITLE | SCALE |
| | | | | CROSSTUBE (AS 350/355 HI FWD) | 1:3 |

| | | |
|---|--|-----------------------------------|
| DART AEROSPACE LTD | | Work Order: 28773 A |
| Description: 35 CROSS TUBE 350 FWD | | Part Number: D 350-288-141 |
| Inspection Dwg: b | | Rev: C |
| Page 1 of 1 | | |

FIRST ARTICLE INSPECTION CHECKLIST

☒ First Article

☒ Prototype

| Drawing Dimension | Tolerance | Actual Dimension | Accept | Reject | Method of Inspection | Comments |
|-------------------|------------|------------------|--------|--------|----------------------|----------|
| 0.062 | $\pm .010$ | .062 | ✓ | | | |
| 4.26 | $\pm .030$ | 4.26 | ✓ | | | |
| 2.240 | $\pm .005$ | 2.243 | ✓ | | | |
| 2.180 | $\pm .005$ | 2.185 | ✓ | | | |
| 2.180 | $\pm .005$ | 2.185 | ✓ | | | |
| 2.237 | $\pm .005$ | 2.241 | ✓ | | | |
| 2.272 | $\pm .005$ | 2.277 | ✓ | | | |
| 2.306 | $\pm .005$ | 2.311 | ✓ | | | |
| 2.339 | $\pm .005$ | 2.341 | ✓ | | | |
| 2.339 | $\pm .005$ | 2.341 | ✓ | | | |
| 110.27 | $\pm .060$ | 110.27 | ✓ | | | |
| 0.062 | $\pm .010$ | .062 | ✓ | | | |
| 4.26 | $\pm .030$ | 4.26 | ✓ | | | |
| 2.240 | $\pm .005$ | 2.243 | ✓ | | | |
| 2.180 | $\pm .005$ | 2.185 | ✓ | | | |
| 2.180 | $\pm .005$ | 2.185 | ✓ | | | |
| 2.237 | $\pm .005$ | 2.242 | ✓ | | | |
| 2.272 | $\pm .005$ | 2.277 | ✓ | | | |
| 2.306 | $\pm .005$ | 2.311 | ✓ | | | |
| 2.339 | $\pm .005$ | 2.340 | ✓ | | | |
| 2.339 | $\pm .005$ | 2.341 | ✓ | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

| |
|------------------------|
| Measured by: BG |
| Date: 06.10.07 |

| |
|-----------------------|
| Audited by: SD |
| Date: 06.10.07 |

| |
|----------------------------|
| Prototype Approval: |
| Date: |

| Rev | Date | Change | Revised by | Approved |
|-----|------|-----------|------------|----------|
| A | | New Issue | KJ/JLM | |



VAC AERO

INTERNATIONAL INC.

PACKING SLIP

OAK 80520-1

11/27/2006

MM / DD / YYYY

PAGE: 1



HEAD OFFICE
1371 SPEERS ROAD, OAKVILLE, ONTARIO
CANADA L6L 2X5
TEL: (905) 827-4171 FAX: (905) 827-7489



QUEBEC DIVISION
7450 RUE VÉRITÉ STREET, ST. LAURENT, QUÉBEC
CANADA H4S 1C5
TEL: (514) 334-4240 FAX: (514) 334-6269

GST No.: R105468102

BILL TO:

1DAR01
DART AEROSPACE LTD.
1270 ABERDEEN ST.
HAWKESBURY, ON

SHIP TO: DART AEROSPACE LTD.
1270 ABERDEEN ST.
HAWKESBURY, ON

K6A 1K7

K6A 1K7

| DATE SHIPPED | SHIP VIA | F.O.B. |
|------------------|----------|--------|
| 11/27/2006 | | ORIGIN |
| CUSTOMER P/O No. | JOB No. | TERMS |
| PO00002263 | | COD |

| LN | PART NO | DESCRIPTION | UOM | QTY ORDERED | QTY SHIPPED | B/O QTY |
|----|---------------------------|--|-----|-------------|-------------|---------|
| 01 | D350-CROSS TUBES | | EA | 8 | 8 | 0 |
| | | Process Specifications: Procedure: 4353 HEAT TREATED TO 180-200 KSI PER AMS 2759-1C 100% HARDNESS TESTED PER ASTM E-18 HRC 40-43 MATERIAL: 4130 SANDBLASTED PARTS | | | | |
| | 1 PIECE D350748141 B28771 | | | | | |
| | 1 PIECE D350748141 B28770 | | | | | |
| | 1 PIECE D350748141 B28772 | | | | | |
| | 1 PIECE D350748141 B28773 | | | | | |
| | 1 PIECE D350748241 B28776 | | | | | |
| | 1 PIECE D350748241 B28777 | | | | | |
| | 1 PIECE D350748241 B28775 | | | | | |
| | 1 PIECE D350748241 B28774 | | | | | |
| 02 | MC | MINIMUM CHARGE | | 1 | 1 | 0 |

No claims for shortage in weight or count will be entertained, unless presented within 5 working days after receipt of materials by customer.



VACUUM BRAZING · HEAT TREATING · SPECIAL PROCESSING · FURNACE EQUIPMENT
TURNING COMPONENT OVERHAUL · PLASMA AND OTHER COATINGS



HEAT
TREATING



VAC AERO
INTERNATIONAL INC.

RELEASE NOTE

GST No.: R105468102

OAK 80520-1



HEAD OFFICE
1371 SPEERS ROAD, OAKVILLE, ONTARIO
CANADA L6L 2X5
TEL: (905) 827-4171 FAX: (905) 827-7489



2009 WYECROFT ROAD, UNIT B
OAKVILLE, ONTARIO
CANADA L6L 6J4
TEL: (905) 827-7377 FAX: (905) 827-1380



QUEBEC DIVISION
7450 RUE VERITE STREET, ST. LAURENT, QUEBEC
CANADA H4S 1C5
TEL: (514) 334-4240 FAX: (514) 334-6269

11/27/2006

MM/DD/YYYY

PAGE: 1

1DAR01

BILL TO: DART AEROSPACE LTD.
1270 ABERDEEN ST.
HAWKESBURY, ON

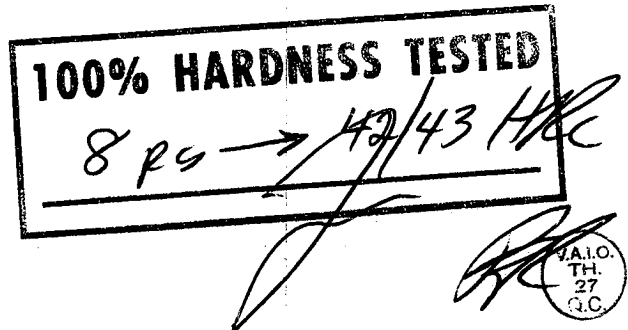
SHIP TO: DART AEROSPACE LTD.
1270 ABERDEEN ST.
HAWKESBURY, ON

K6A 1K7

K6A 1K7

| DATE SHIPPED | SHIP VIA | F.O.B. |
|------------------|----------|--------|
| 11/27/2006 | | ORIGIN |
| CUSTOMER P/O No. | JOB No. | TERMS |
| PO00002263 | | COD |

| PART No. | DESCRIPTION | UOM | QTY ORD | QTY SHPD | TEST RESULTS |
|---|-------------|-----|------------|-------------|--------------|
| D350-CROSS TUBES | | EA | 8 | 8 | |
| <p>Process Specifications: Procedure: 4353 HEAT TREATED TO 180-200 KSI PER AMS 2759-1C ✓ 100% HARDNESS TESTED PER ASTM E-18 HRC 40-43 ✓ MATERIAL: 4130 SANDBLASTED PARTS</p> <p>1 PIECE D350748141 B28771 1 PIECE D350748141 B28770 1 PIECE D350748141 B28772 1 PIECE D350748141 B28773 1 PIECE D350748241 B28776 1 PIECE D350748241 B28777 1 PIECE D350748241 B28775 1 PIECE D350748241 B28774</p> | | | | | |



I hereby certify that the material covered by this release note has been inspected and tested and conforms to all specifications relevant thereto in accordance with the conditions of the contract / or purchase order.

ON BEHALF OF VAC AERO INTERNATIONAL INC.

Authorized Q.C. Inspector



VACUUM BRAZING · HEAT TREATING · SPECIAL PROCESSING · FURNACE EQUIPMENT
TURBINE COMPONENT OVERHAUL · PLASMA AND OTHER COATINGS



DART AEROSPACE
1270 Aberdeen Str.
Hawkesbury, ON
K6A 1K7

| | | |
|----------------------------|---|---------------|
| N° DE COMMANDE - ORDER NO. | DÉP. - DEPT. | DATE 06-10-17 |
| VENDU À - SOLD TO | EXPÉDIÉ À - SHIP TO VAC AERO 1371 Speers Rd | |
| ADRESSE - ADDRESS | ADRESSE - ADDRESS Oakville, ON L6L 2X5 | |

| | | | | |
|-----------------------------------|-----|--------------------|----------------------------------|--|
| DATE D'EXPÉDITION - SHIPPING DATE | VIA | CONDITIONS - TERMS | N° D'ENR. DE TAXE - TAX REG. NO. | VENDEUR - SALESPERSON 905-827-4171 AMINESH |
|-----------------------------------|-----|--------------------|----------------------------------|--|

1 D350-748-141 B28771A

~~1 D350-748-141 B28770A~~

1 D350-748-141 B28773A

1 D350-748-141 B28772A

1 D350-748-241 B28776A

1 D350-748-241 B28777A

1 D350-748-241 B28775A

1 D350-748-241 B28774A

430
MAT'L

Heat treat to min. 180 Ksi

Sand blast after heat treat

Certificate of conformity req'd with return

Return via Epic collect
acct # 4300450343

TPS/GST

TVP/PST

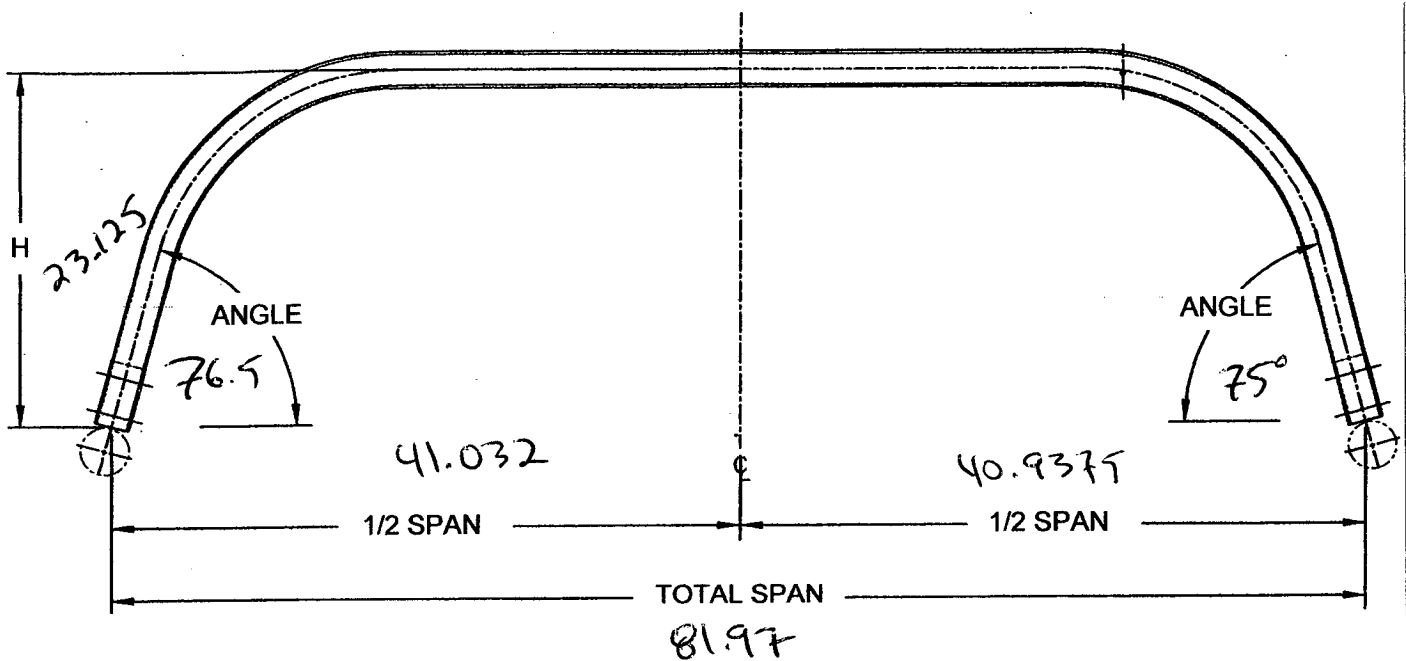
274726

SIGNATURE

N° LIC. - LIC. NO.

TOTAL

Crosstube Bend Dimension Sheet



PART NUMBER: 350-748-141

BATCH NUMBER: 28773

DRAWING: 350-748-141 REVISION: BCL

H: 23.25

1/2 SPAN: 40.9

TOTAL SPAN: 81.8

ANGLE: 75⁺²₋₀

QC 15: [Signature]
DATE: 070201
QTY: 1



Southwest United Industries, Inc.

SOUTHWEST UNITED INDUSTRIES, INC.
422 S. St. Louis Tulsa, OK 74120

Page 1 of

PACKING LIST

DART AEROSPACE LTD
1270 ABERDEEN STREET
HAWKESBURY, ON K6A 1K7
CANADA

Ship ID: 18869
Ship Date: 03/26/2007
Terms: C.O.D.

Certification #: 23920

Certification Date:

1 D350-748-141
CROSSTUBE

Ref-No: B28459

Job-No: 48090

P/O #: PO00003206

1 D350-748-141
CROSSTUBE

Ref-No: B29757

Job-No: 48329

P/O #: PO00003206

1 D350-748-141
CROSSTUBE

Ref-No: B28773

Job-No: 48330

P/O #: PO00003206

1 D350-748-141
CROSSTUBE

Ref-No: B29760

Job-No: 48331

P/O #: PO00003206

1 D350-748-141
CROSSTUBE

Ref-No: B28776

Job-No: 48332

P/O #: PO00003206

1 D350-748-141
CROSSTUBE

Ref-No: B28775

Job-No: 48333

P/O #: PO00003206

1 D350-748-141
CROSSTUBE

Ref-No: B28774

Job-No: 48334

P/O #: PO00003206

OF JOBS ON 23920:

7

SHIPPED QTY FOR 23920:

7

Tracking #: SCX K
Ship Via: OTHERS

FAA Repair Station CN2R748K
Subject to Southwest United Industries, Inc. Standard Terms and Conditions available for review at www.swunited.com



Southwest United Industries, Inc.

SOUTHWEST UNITED INDUSTRIES, INC.
422 S. St. Louis Tulsa, OK 74120

Page 1 of 2

CERTIFICATION

DART AEROSPACE LTD

Certification #: 23920

Certification Date: 03/26/2007

| Qty | Part Number/Description | Job-No/Order-No/Ctl-No |
|-----|---------------------------|-------------------------------|
| 1 | D350-748-141 CROSSTUBE | 48090 PO00003206 B28459 |
| 1 | D350-748-141 CROSSTUBE | 48329 PO00003206 B29757 |
| 1 | D350-748-141 CROSSTUBE | 48330 PO00003206 B28773 |
| 1 | D350-748-141 CROSSTUBE | 48331 PO00003206 B29760 |
| 1 | D350-748-141 CROSSTUBE | 48332 PO00003206 B28776 |
| 1 | D350-748-141 CROSSTUBE | 48333 PO00003206 B28775 |
| 1 | D350-748-141 CROSSTUBE | 48334 PO00003206 B28774 |

1. Stress relieve at 350-400F for 4 hours minimum

2. Cadmium plate per AMS-QQ-P-416B, Type II, Class 1 (QQ-P-416, Type II, Class 1) ✓

3. Embrittlement relieve within 4 hours of plating at 350-400F for 8 hours minimum

4. Magnetic particle inspect per ASTM E 1444-05. No linear indications/cracks allowed. ✓

Qty Ins: 7 Qty Rej: 0 Qty Acc: 7

5. Inspect

FAA Repair Station CN2R748K

Subject to Southwest United Industries, Inc. Standard Terms and Conditions available for review at www.swunited.com



Southwest United Industries, Inc.

SOUTHWEST UNITED INDUSTRIES, INC.
422 S. St. Louis Tulsa, OK 74120

Page 2 of 2

CERTIFICATION

2

We certify that the parts listed above have been processed in accordance with the requirements and specifications of the above referenced purchase order. Documentation is on file and available for review.

Certification By: 

FAIN, MARK



FAA Repair Station CN2R748K

Subject to Southwest United Industries, Inc. Standard Terms and Conditions available for review at www.swunited.com

DART

| | | | |
|-------------------|--------------------|--|------------------------|
| DESIGN <i>QD</i> | DRAWN BY <i>QD</i> | DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA | |
| CHECKED <i>HA</i> | APPROVED <i>HA</i> | DRAWING NO. D350-748-141 | REV. D SHEET 1 OF 3 |
| DATE 06.10.31 | | TITLE CROSSTUBE (AS 350/355 HI FWD) | SCALE NTS |
| A | 06.03.31 | NEW ISSUE | |
| B | 06.06.30 | ADD D6017-115 & PRIME AND PAINT | |
| C | 06.08.14 | ADD CAD PLATING | |
| D | 06.10.31 | MAG. PARTICLE AND CAD PLATE AS MFD. | |

RELEASED06.10.31 *HA*

| QTY | P/N | DESCRIPTION |
|-----|---------------|--|
| X | D350-748-141 | CROSSTUBE ASSEMBLY (AS 350/355 HI FWD) |
| 1 | D6017-115 | CROSSTUBE (OR D6015-125) |
| 2 | D3502-1 | SUPPORT |
| 2 | D2856-400-710 | ABRASION STRIP |
| 1 | AELS-1032-225 | INSERT |
| 1 | AN960JD10 | WASHER |
| 2 | MS21920-20 | CLAMP (PER DART SPEC. M-MS21920-20) |
| 1 | MS27039-1-10 | SCREW |

D350-748-141 CROSSTUBE:

- 1) MATERIAL: MANUFACTURED FROM D6017-115 OR D6015-125
FINISHED LENGTH = 110.27±0.06
- 2) MACHINE PER MACHINING DETAIL ON PAGE 3. BLEND OUT ALL EDGES FROM MACHINING LONGITUDINALLY, TRANSITIONS SHOULD BE SMOOTH. NOTE: ALL HOLES ARE DRILLED AFTER BENDING.
- 3) SCRIBE DART PART NUMBER AND BATCH NUMBER IN THIS AREA WITH VIBRATING STYLUS.
- 4) BEND PROGRESSIVELY WITH A MINIMUM OF 7 PASSES. MAXIMUM TUBE FLATTENING DUE TO BENDING IS 6% BASED ON O.D.
- 5) HEAT TREAT TO MIN. 180 KSI PER MIL-T-6736 OR AMS 2759-1C AFTER TURNING
- 6) FINISH: MAGNETIC PARTICLE INSPECT PER DART QSI 038 4.2
CADMIUM PLATE PER AMS-QQ-P-416B, CLASS 1, TYPE II
PRIME INSIDE AND OUTSIDE PER DART QSI 005 4.2
PAINT OUTSIDE PER DART QSI 005 4.2
- 7) EXTREME CARE MUST BE TAKEN TO PROTECT THE OUTSIDE SURFACE OF THE TUBE. THE OUTSIDE SURFACE MUST BE SMOOTH AND FREE FROM SURFACE DEFECTS SUCH AS SCRATCHES, NICKS, OR DENTS. DEFECTS UP TO 0.005" MAY BE BLENDED OUT LONGITUDINALLY. CIRCUMFERENTIAL GRIND MARKS ARE UNACCEPTABLE. WHEN DRILLING HOLES EXTREME CARE MUST BE TAKEN AND CAREFUL DEBURRING PERFORMED TO ENSURE A CLEAN HOLE WITH NO CRACKING/CHIPPING/GROOVES.
- 8) INSTALL D2856-400-710 ABRASION STRIP WITH A GAP ON BOTTOM SIDE OF CROSSTUBE, CENTERED OPPOSITE D3502-1 SUPPORT, PER QSI 035.
- 9) TORQUE MS21920-20 CLAMPS 60 TO 80 IN-LB
- 10) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED.
- 11) ALL DIMENSIONS ARE IN INCHES
- 12) PART IS SYMMETRIC ABOUT CENTERLINE EXCEPT FOR Ø0.297 HOLE.

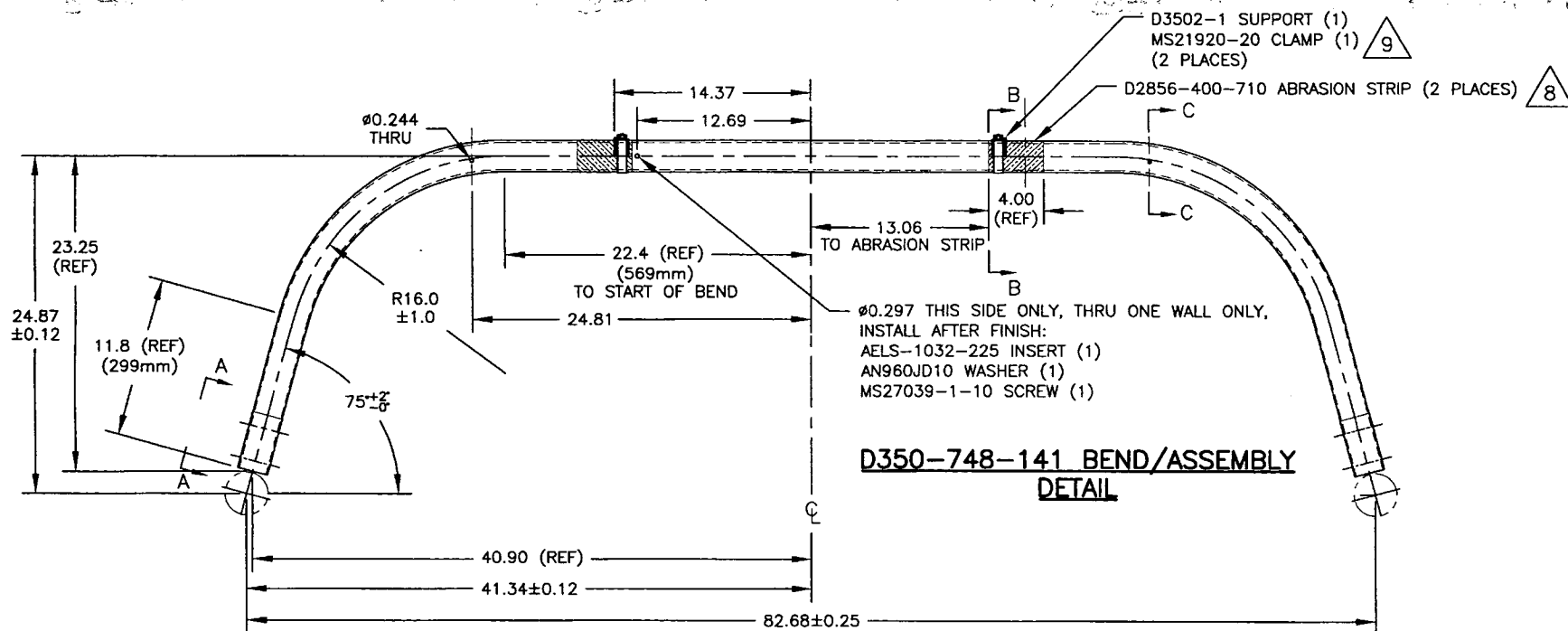
UNDER REVIEW

07.02.16

COPY BEING REDUCED

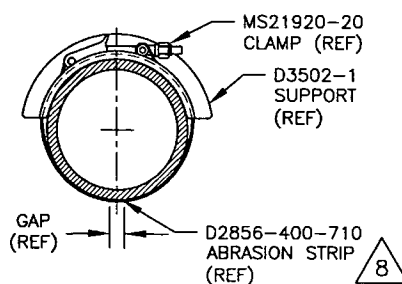
OIL *VP 023.2K***Copyright © 2006 by DART AEROSPACE LTD**

THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.



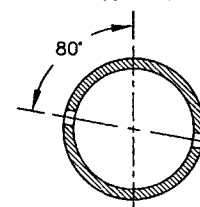
SECTION B-B

SCALE 1:2



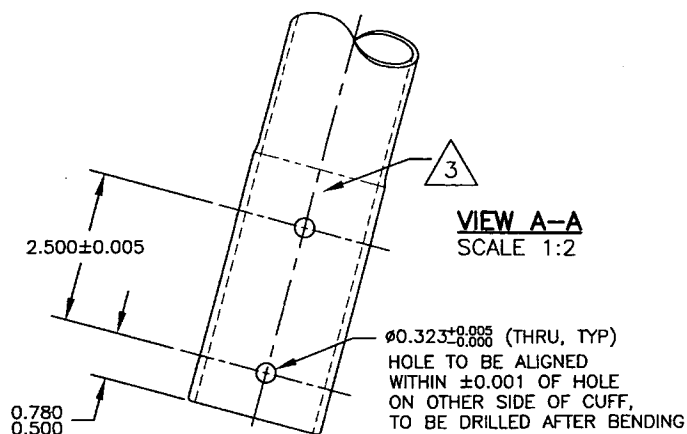
SECTION C-C

SCALE 1:2



VIEW A-A

SCALE 1:2



UNDER REVIEW

07.02.16

RELEASED

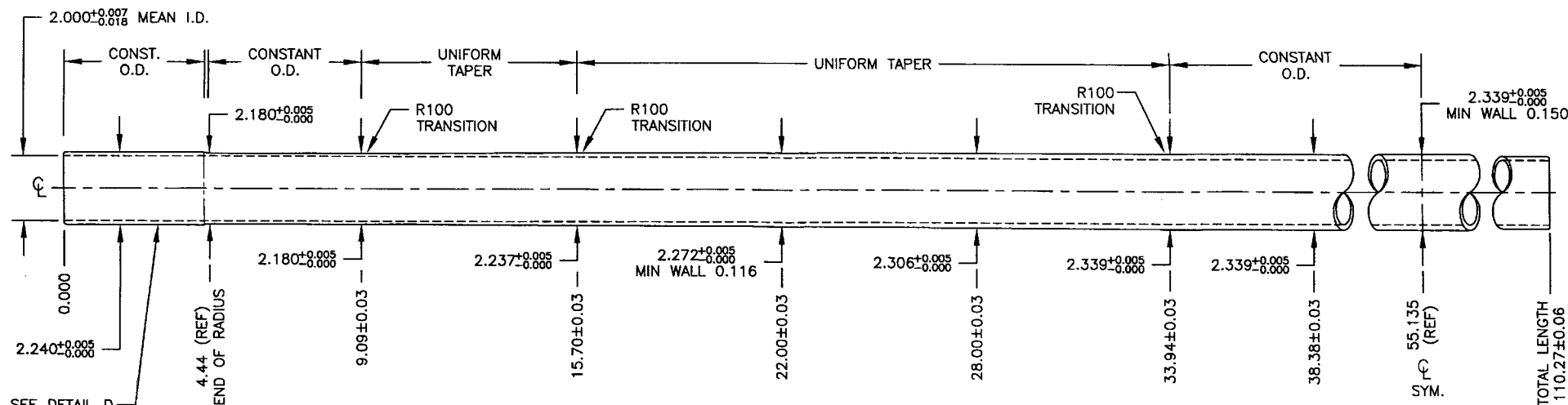
06.10.31

COPYRIGHT © 2006 BY DART AEROSPACE LTD.

THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.

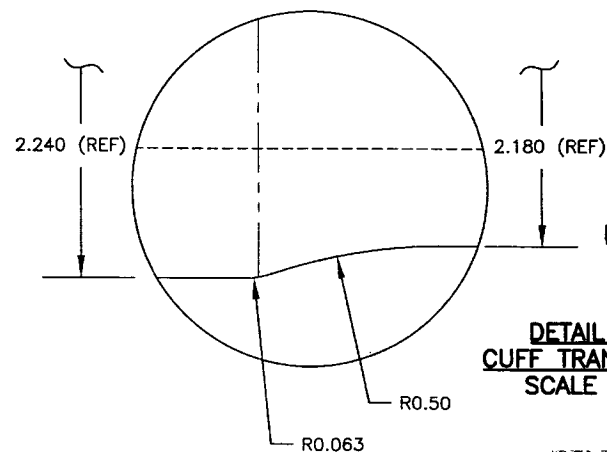
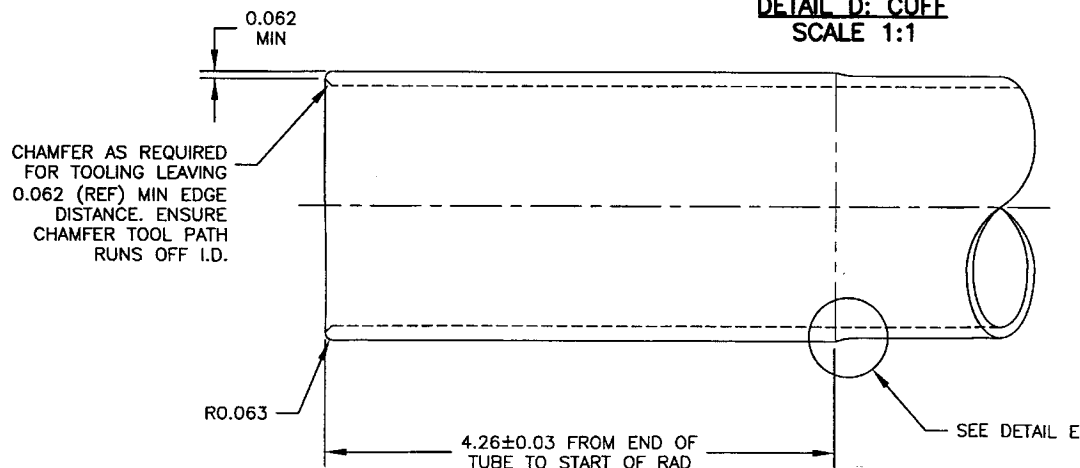
| | | | | | |
|---------|----------|----------|-------------------------------|-------------|---|
| DESIGN | 90 | DRAWN BY | 90 | DART | DART AEROSPACE LTD. MILLSBURY, ONTARIO, CANADA |
| CHECKED | # | APPROVED | # | DRAWING NO. | D350-748-141 |
| DATE | 06.10.31 | TITLE | CROSSTUBE (AS 350/355 HI FWD) | REV. D | SHEET 2 OF 3 |
| | | | | SCALE | 1:8 |

SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. 28715A



D350-748-141 MACHINING DETAIL

DETAIL D: CUFF SCALE 1:1



UNDER REVIEW

DETAIL E: CUFF TRANSITION SCALE 9:1

RELEASED

06.10.31

COPYRIGHT © 2006 BY DART AEROSPACE LTD.

THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.

| | | | | | |
|---------|----------|----------|-------------------------------|-------------|--|
| DESIGN | qp | DRAWN BY | qp | DART | DART AEROSPACE LTD. HARRISBURG, ONTARIO, CANADA |
| CHECKED | # | APPROVED | # | DRAWING NO. | D350-748-141 |
| DATE | 06.10.31 | TITLE | CROSSTUBE (AS 350/355 HI FWD) | REV. 0 | SHEET 3 OF 3 |
| | | | | SCALE | 1:3 |

SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. 28773A

OK
06.10.31